## AMENDMENTS TO THE CLAIMS

Claims 1-169 (Canceled)

- 170. (currently amended) A semiconductor component comprising:
- a thinned semiconductor die having a circuit side, a back side, four peripheral edges, and a plurality of die contacts on the circuit side, and a selected thickness Ts;
  - a plurality of contact bumps on the die contacts;
- a first polymer layer <u>planarized to a precise thickness Tcs</u> comprising <u>a</u>
  <u>continuous layer -self planarizing thermoset underfill film</u> covering the circuit side and
  the peripheral edges <u>to the back side</u>, the first polymer layer having a first planar surface
  <u>on the circuit side</u> and <u>continuous</u> edge polymer layers covering and rigidifying the
  peripheral edges; <u>and</u>
- a second polymer layer <u>planarized to a precise thickness Tp</u> covering the back side having a second planar surface,

the first polymer layer and the second polymer layer encapsulating the die on six sides and supporting the die, the contact bumps and the peripheral edges; and

a plurality of terminal contacts on the contact bumps.

- 171. (previously presented) The semiconductor component of claim 170 wherein the die comprises a tested and burned in die and the component comprises a known good component (KGC).
- 172. (currently amended) The semiconductor component of claim 170 wherein the <u>first polymer layer comprises a thermoset</u> underfill film, eures and planarizes at a temperature of about 200-250 °C, has a Young's modulus of about 4G Pascal, and a coefficient of thermal expansion (CTE) of about 33 parts per million per °C.

- 173. (currently amended) The semiconductor component of claim 170 wherein the second polymer layer comprises the a thermoset underfill film.
- 174. (withdrawn) The semiconductor component of claim 170 wherein the first polymer layer and the second polymer layer have beveled edges.
- 175. (currently amended) The semiconductor component of claim 170 wherein the first polymer layer comprises a thermoset underfill film having a cure temperature of about 200-250 °C, a Young's modulus of about 4G Pascal, and a coefficient of thermal expansion (CTE) of about 33 parts per million per °C.

further comprising a plurality of terminal contacts on the contact bumps.

- 176. (currently amended) The semiconductor component of claim 170 wherein the terminal contacts are arranged in a dense ball grid array (BGA).
- first polymer layer has a thickness which is less than a height of the contact bumps and each contact bump is surrounded by a portion of the first polymer layer.
- 177. (previously presented) The semiconductor component of claim 170 wherein the die includes conductive vias in electrical communication with the die contacts and the contact bumps.
- 178. (previously presented) The semiconductor component of claim 170 wherein the die contacts comprise bond pads.
- 179. (withdrawn) The semiconductor component of claim 170 wherein the die contacts comprise redistribution pads.

Claims 180-261 (canceled)

262. (previously presented) The semiconductor component of claim 170 wherein the die contacts comprise a solderable metal, and the contact bumps comprise solder.

- 263. (currently amended) The semiconductor component of claim 170 wherein the terminal contacts and the contact bumps having a height selected to provide a desired spacing for flip chip mounting the component.
- further comprising a plurality of terminal contacts on the die in electrical communication with the contact bumps in a standardized grid array.
- 264. (currently amended) The semiconductor component of claim 170 further comprising a plurality of terminal contacts comprising wherein the terminal contacts comprise ball bonds on the contact bumps.
- 265. (previously presented) The semiconductor component of claim 170 wherein the first polymer layer on each edge comprises a portion of a polymer filled trench.
- 266. (previously presented) The semiconductor component of claim 170 wherein the edge polymer layers and the back side have a same planar surface.
- 267. (currently amended) The semiconductor component of claim 170 wherein the edge polymer layers have a selected an edge thickness which is different than a the thickness Tes of the first polymer layer.
- 268. (previously presented) The semiconductor component of claim 170 wherein the die comprises a tested and burned in die.
- 269. (previously presented) The semiconductor component of claim 170 wherein the die is contained on a semiconductor wafer having a polymer support dam proximate to edges thereof.
- 270. (currently amended) The semiconductor component of claim 170 wherein the second polymer layer comprises the a thermoset underfill film, and the underfill film eures and planarizes at a having a cure temperature of about 200-250 °C, has a Young's

modulus of about 4G Pascal, and a coefficient of thermal expansion (CTE) of about 33 parts per million per °C.

271. (previously presented) The semiconductor component of claim 170 wherein the second polymer layer comprises parylene.

Claim 272 (canceled)